

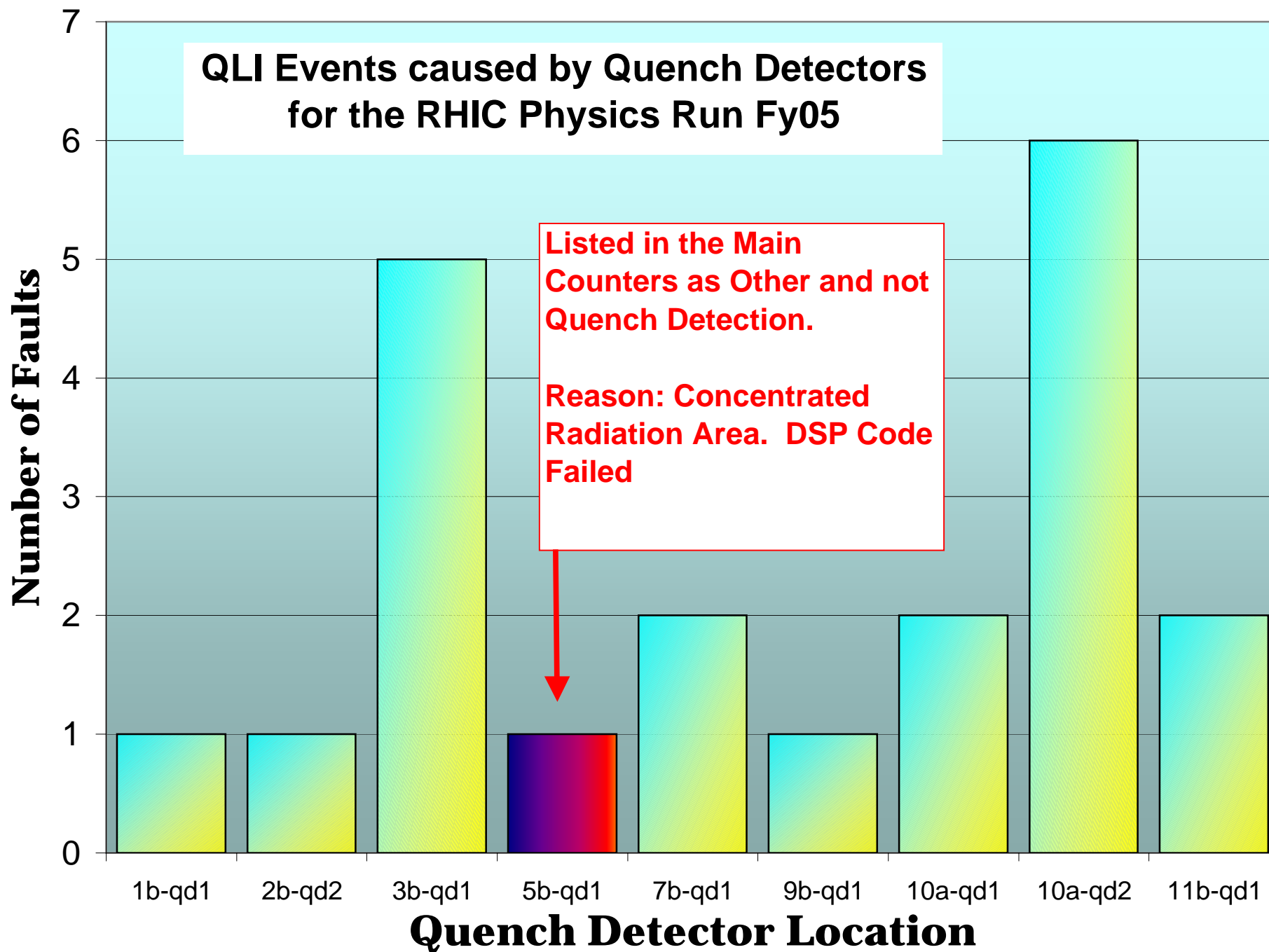
## RHIC Physics Fiscal year - qli counters

<b>Main QLI Faults</b>	<b>Total</b>	<b>fy02</b>	<b>fy03</b>	<b>fy04</b>	<b>fy05</b>
Beam Induced		46	69	54	37
Quench Detector Faults		13	29	13	20
IR Supply Faults		100	44	24	51
QPA Faults		40	6	9	6
Main PS (Total) Faults		68	38	46	6
Controls 6B Yellow Permit Fail		25	9	24	0
Controls Related		20	15	20	13
Operations Error		34	15	17	12
Cryo Related		6	9	2	4
Power Failure		10	8	3	7
Other		27	27	24	29
Power Supply Induced Quench		6	1	4	0
Maintenance Related		8	34	83	20
<b>Totals:</b>	<b>1235</b>	<b>403</b>	<b>304</b>	<b>323</b>	<b>205</b>
<b>Total minus Maintenance:</b>	<b>1090</b>	<b>395</b>	<b>270</b>	<b>240</b>	<b>185</b>
<b>Snake / Spin Quench Faults</b>	<b>Total</b>	<b>fy02</b>	<b>fy03</b>	<b>fy04</b>	<b>fy05</b>
Beam Induced		20	17	5	2
Quench Detector Faults		0	0	1	0
Power Supply Faults		10	2	4	0
QPA Faults		0	0	0	0
Operations Error		2	0	2	1
Cryo Related		2	0	1	3
Power Failure		0	0	2	2
Other		2	6	0	5
Maintenance Related		0	0	0	0
<b>Totals:</b>	<b>89</b>	<b>36</b>	<b>25</b>	<b>15</b>	<b>13</b>
<b>Total minus Maintenance:</b>	<b>89</b>	<b>36</b>	<b>25</b>	<b>15</b>	<b>13</b>

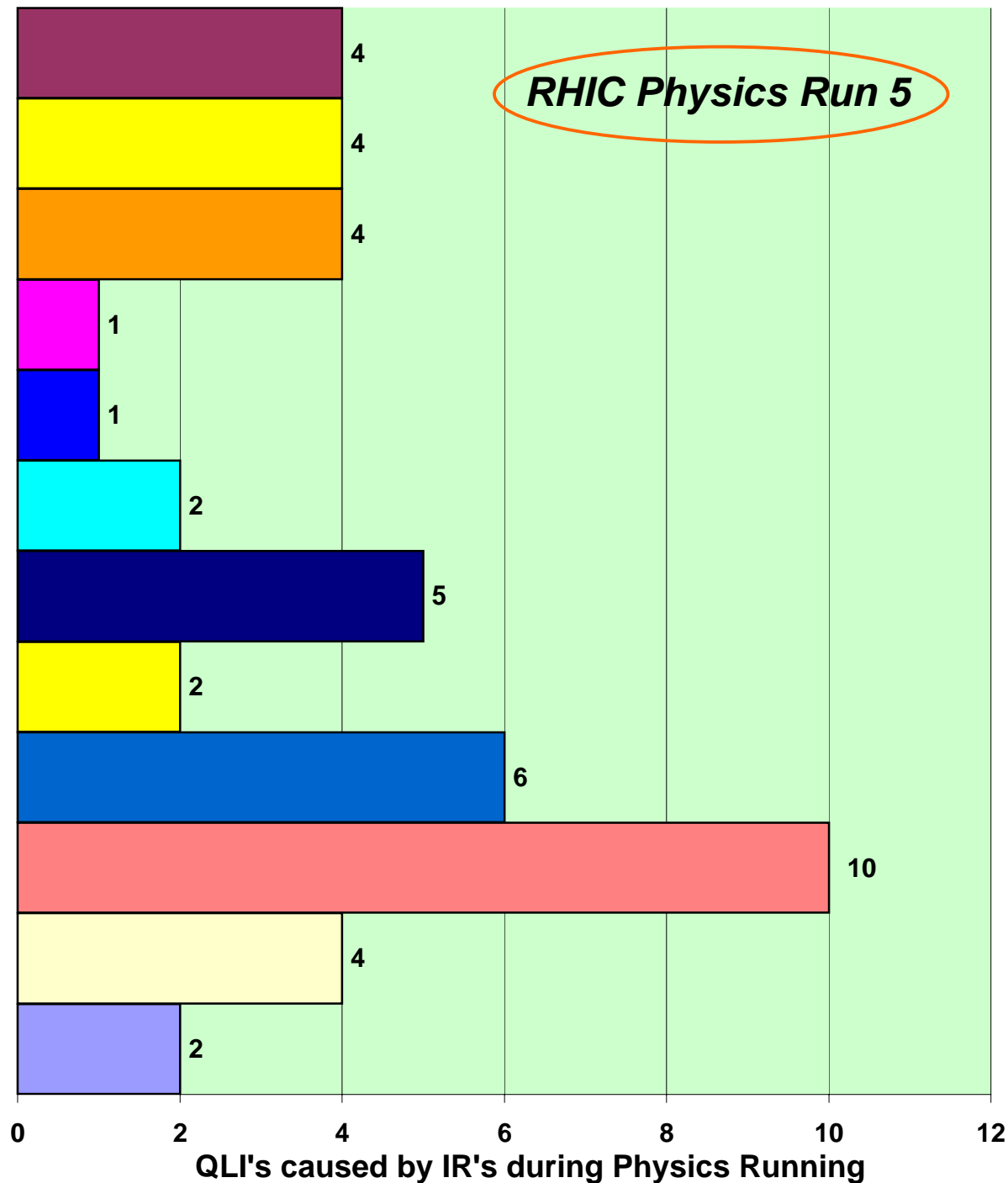
## Official WEB Counters RHIC Physics Fy05

<u>Main QLI Faults</u>	<u>Qty</u>
Beam Induced Quench	37
Quench Detector Faults	20
IR Supply Faults	51
QPA Faults	6
Main PS (Total) Faults	6
Controls 6B Yellow Permit Fail	0
Controls Related	13
Operations Error	12
Cryo Related	4
Power Failure	7
Other	29
Power Supply Induced Quench	0
Maintenance Related	20
<b>Totals for the Main QLI's:</b>	<b>185</b>

<u>Snake / Spin Quench Faults</u>	<u>Qty</u>
Beam Induced	2
Quench Detector Faults	0
Power Supply Faults	0
QPA Faults	0
Operations Error	1
Cryo Related	3
Power Failure	2
Other	5
Maintenance Related	0
<b>Totals for the Snk / Spn QLI's:</b>	<b>13</b>

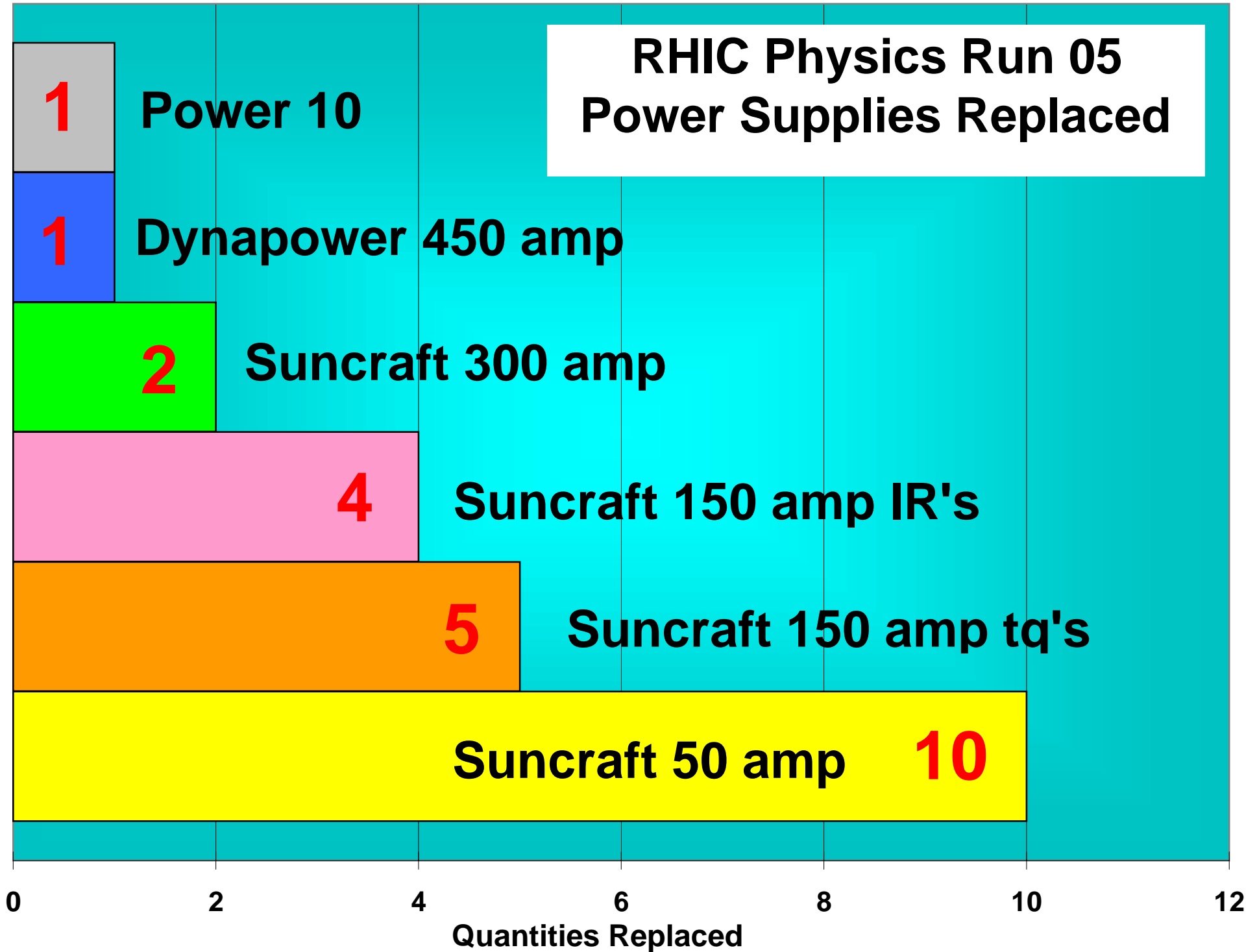


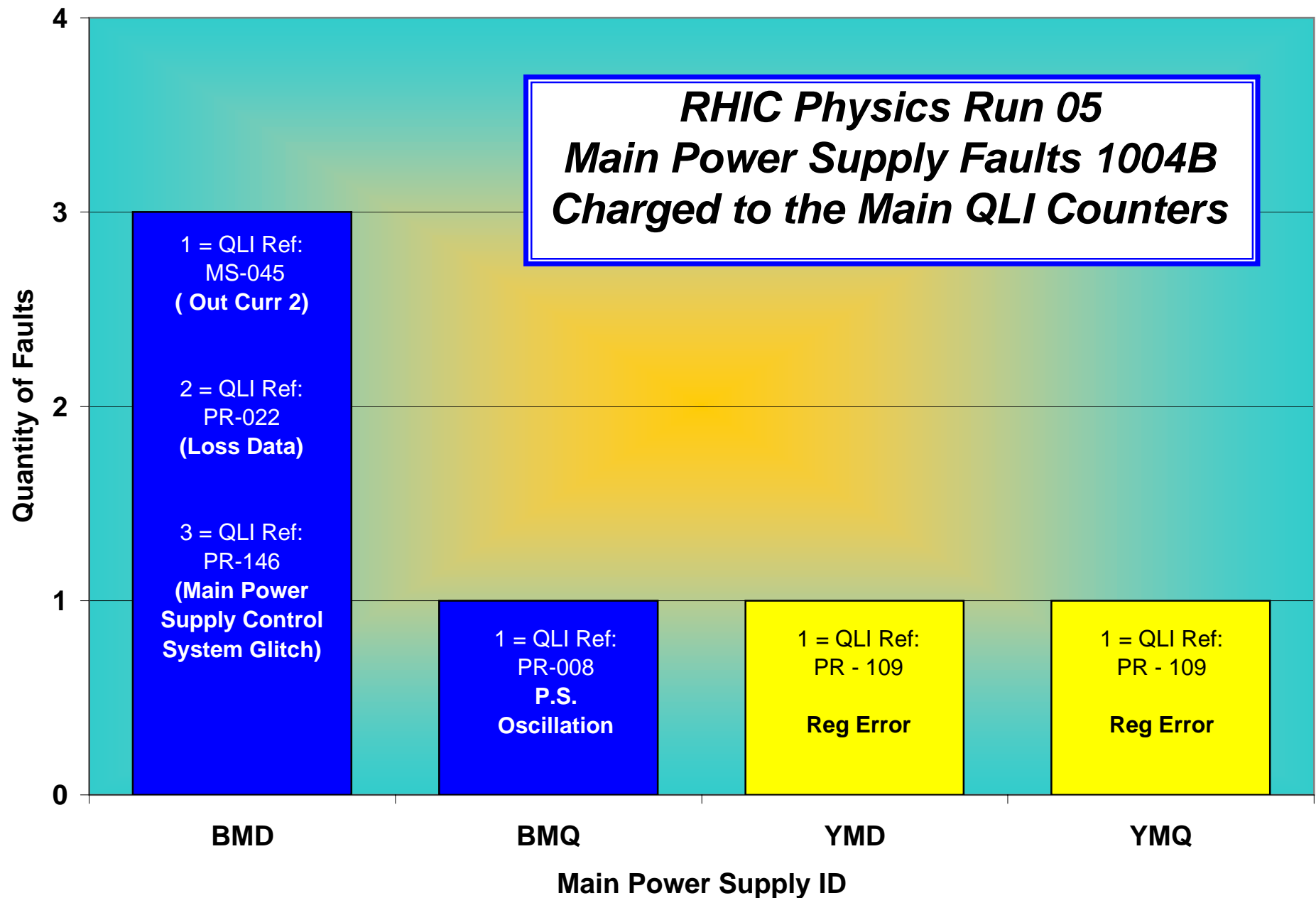
## RHIC Physics Run 5

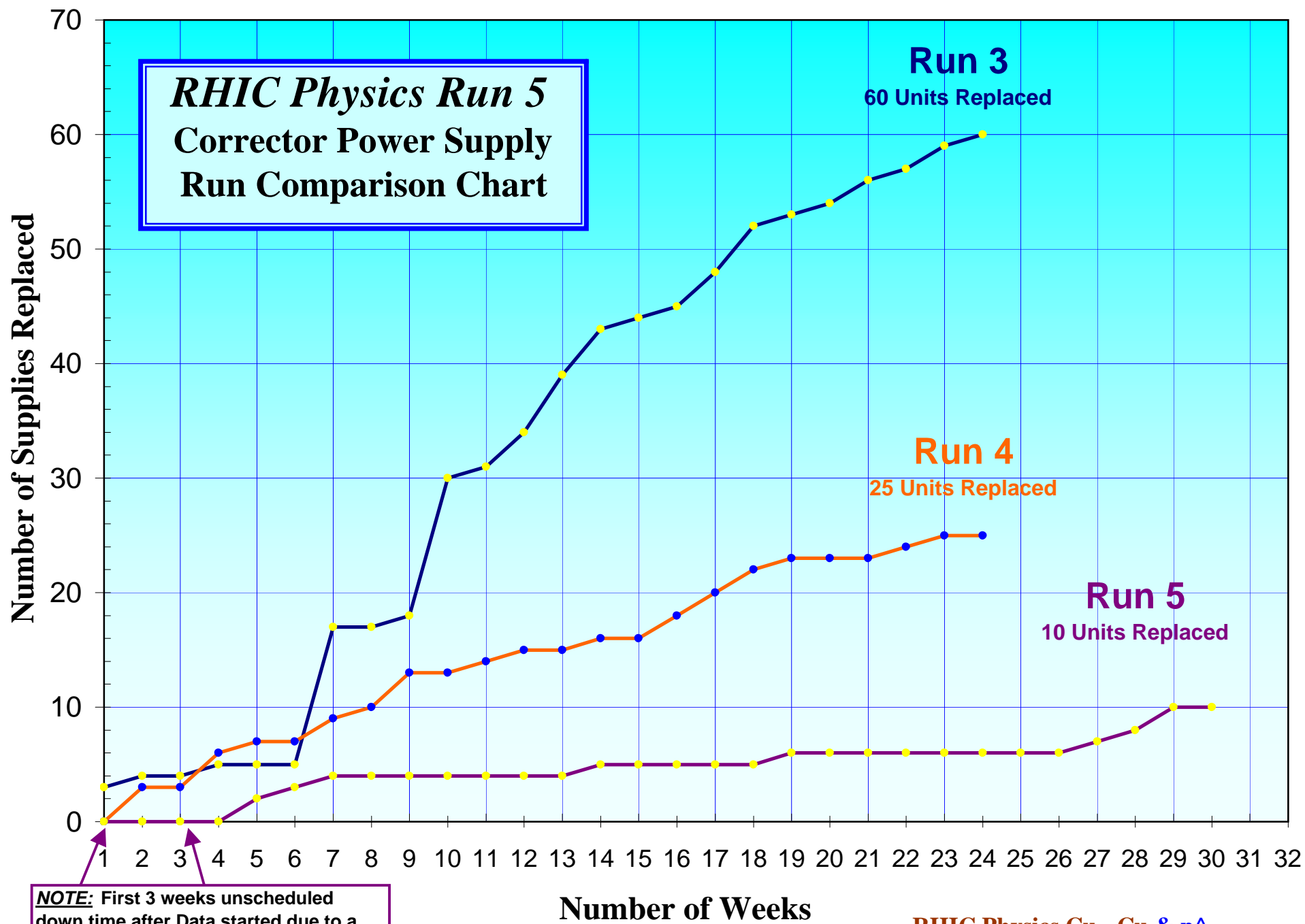


- 3-channel Iso Board ( 1 Card )
- Buffer Card ( 1 Supply )
- Current Reg Card ( 4 Cards )
- DCOC ( 1 Supplies )
- ACOC Relay Module ( 1 Supply )
- Fiber Optics Card ( 2 Cards )
- Off trips ( 3 Supplies )
- Power Supply Glitches ( 2 Supplies )
- QPA to PS Cable Con. ( 4 Supplies )
- QPA Units Replaced (10 QPA's)
- Soft Start Relay Res. ( 1 Supply )
- y2-dh0: Current Drift ( 1 Supply )

**RHIC Physics Run 05  
Power Supplies Replaced**





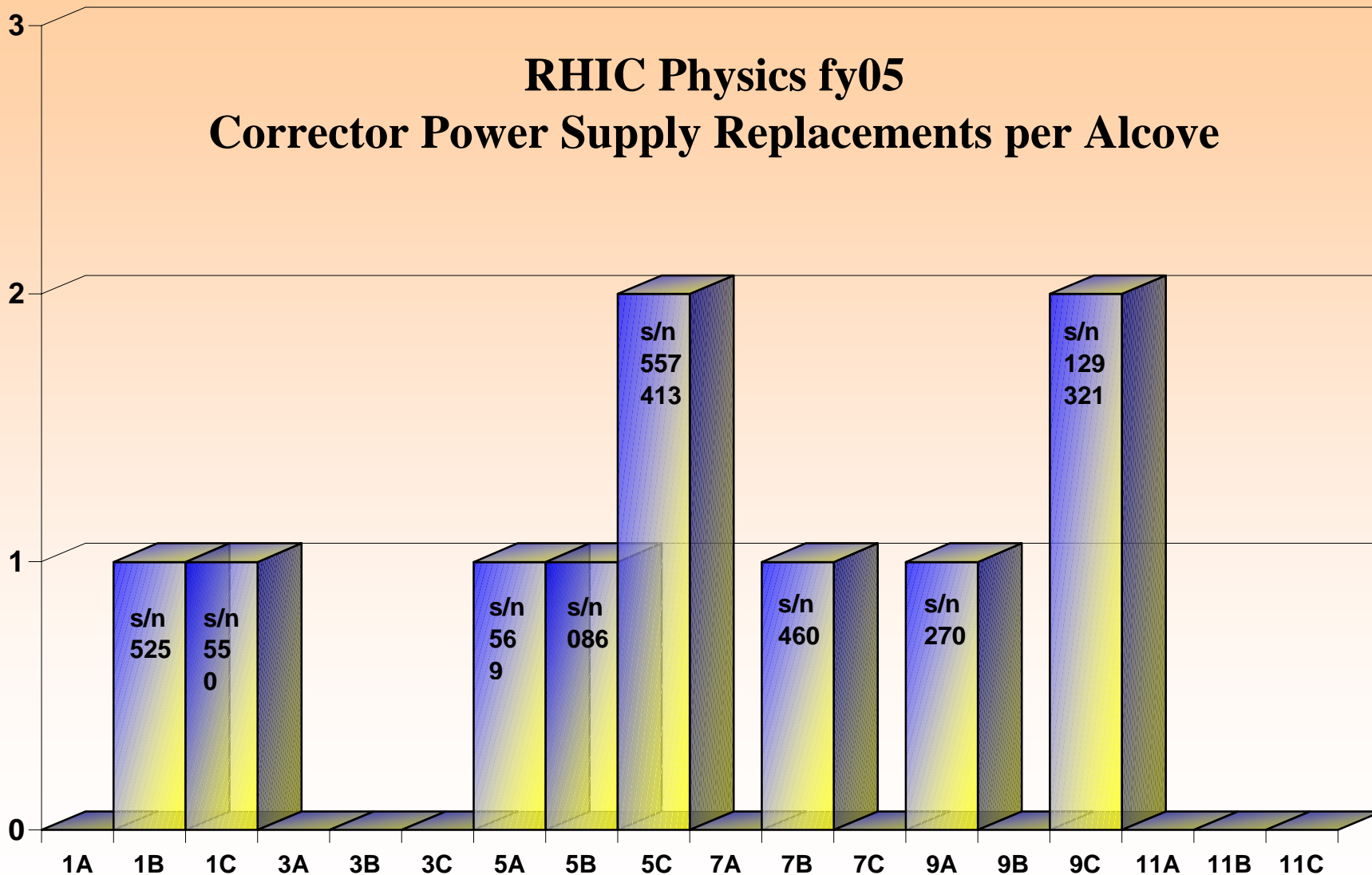


**NOTE:** First 3 weeks unscheduled  
down time after Data started due to a  
Magnet Failure in the Main Ring.

**RHIC Physics Cu - Cu & p<sup>+</sup>**  
Data Researched & Compiled by Gregory P. Heppner

Number of Supplies Replaced

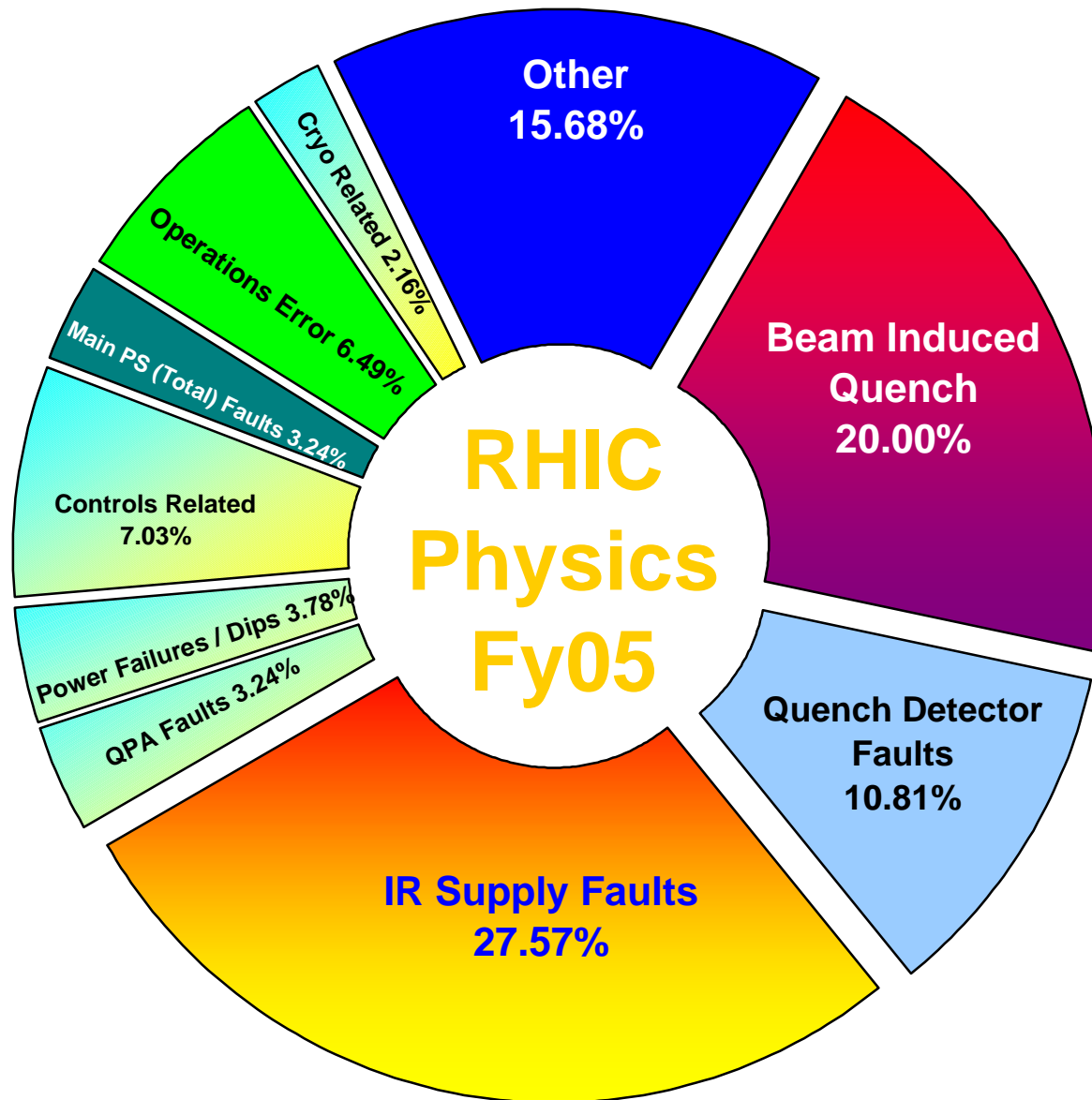
## RHIC Physics fy05 Corrector Power Supply Replacements per Alcove



Data Researched & Compiled by Gregory P. Heppner

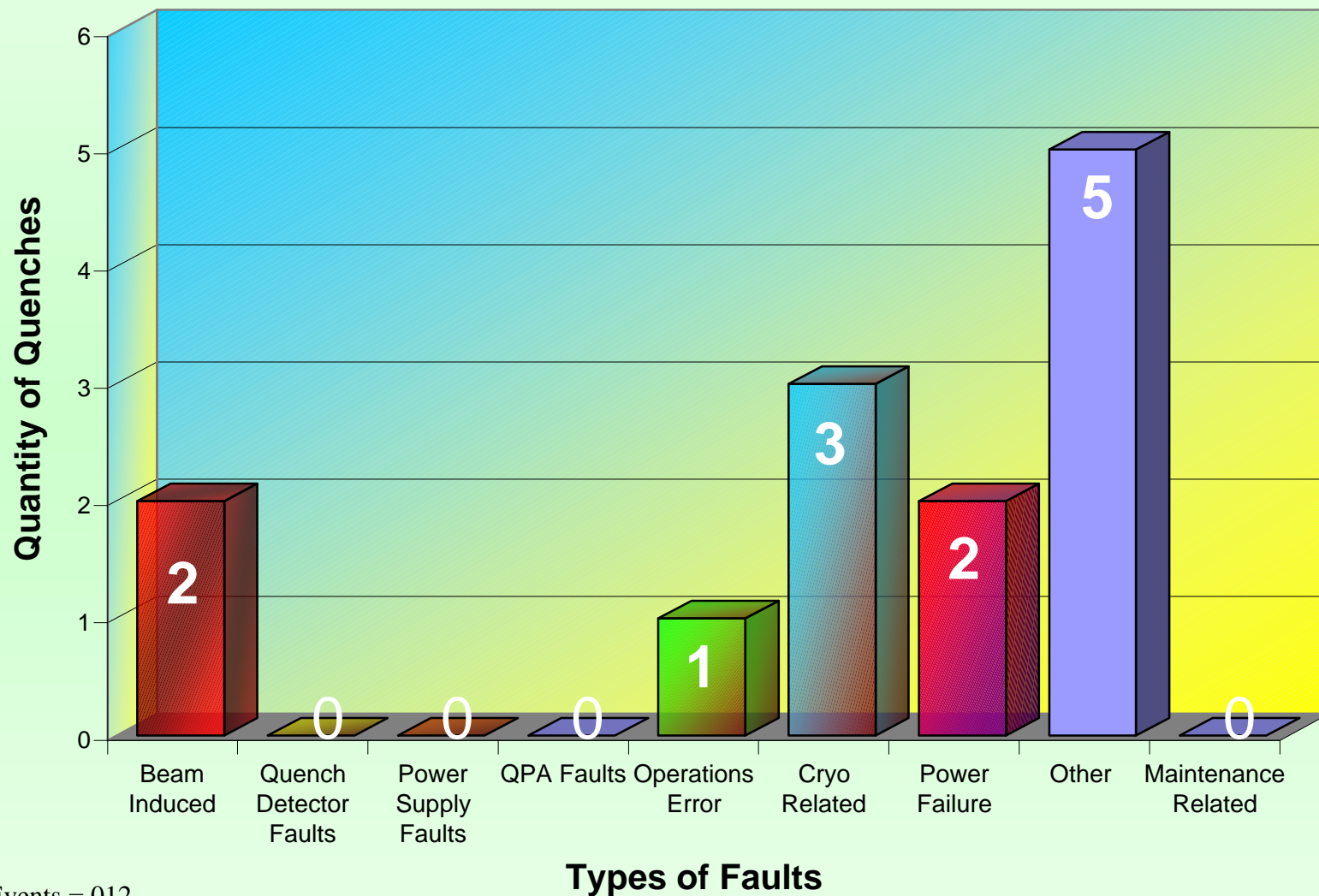


# RHIC Physics Run 05 - % of Faults / Main QLI Counters



# Snake and Spin Rotator Quench Faults

## RHIC Polarized Proton Run 05



Total QLI Events = 012

Note: Columns = 13 but SQ-011, Cryo caused both ring to quench and was counted as 1 event.

Data Researched & Compiled by Gregory P. Heppner

June 25 , 2005